

Amendments to the Specification:

Please replace paragraph [0025] with the following rewritten paragraph:

[0025] In the actual calculation of the accumulated dose to which a person is exposed during a flight, the data available from any observatories, such as the Apatity observatory on the Kola peninsula in Russia, [[and]] may particularly be processed in a radiation dose calculation programme, such as the CARI-6 cosmic radiation dose calculation programme developed by the Civil Aerospace Medical Institute of the US Federal Aviation Administration, described below in the Annex 1 and Annex 2 or alternatively, dosimetric data from more than one observatory or more than one server may be used in combination in order to improve the accuracy of the calculation programme. The dosimetric data may further be used for providing a forecast by averaging the dosimetric data for a previous period of time and by calculating on a simulation flight from one location to another in accordance with a previous flight, or in accordance with a plurality of previous flights, the accumulated dose which a person may expect to be subjected to in a future flight from the one location in question to the other location in question.

Please replace paragraph [0028] with the following rewritten paragraph:

[0028] 2. the arc is divided [[in]] into a number of pieces ("reference points") which correspond to the same number of minutes of the flight;

Please replace paragraph [0029] with the following rewritten paragraph:

[0029] 3. the position and altitude are calculated according to each reference point of the great circle arc;

Please replace paragraph [0030] with the following rewritten paragraph:

[0030] 4. the radiation dose per hour ("radiation power") is calculated ~~in the~~ at each reference point with the neutron counting number of the time by means of the function with the constants as ~~Indicated~~ indicated in Table 4, where the relevant constants are selected from the calculated altitude of the aircraft (cf. the profile of the aircraft) at the time in question;